

CLAIMS

What is claimed is:

- 1 1. A method for organizing a digital image, comprising:
2 identifying, within the digital image, a set of digitized objects; and
3 adjusting at least one digitized object within the digital image so that the
4 adjusted digitized object at least substantially conforms to a prescribed state,..
- 1 2. The method of Claim 1, wherein adjusting affects one or more of a
2 size, a location, and an orientation of the digitized object.
- 1 3. The method of Claim 1, further comprising generating the digital
2 image of a set of objects, each of the set of digitized objects being a digital
3 replica of one of the set of objects.
- 1 4. The method of Claim 3, wherein the steps of identifying and
2 adjusting are performed automatically upon generation of the digital image.
- 1 5. The method of Claim 1 further comprising automatically instructing
2 that the digital image be produced upon performing the steps of identifying and
3 adjusting.
- 1 6. The method of Claim 1, wherein adjusting comprises adjusting at
2 least one digitized object within the digital image so that the adjusted digitized
3 object shares a generally uniform state with another digitized object.
- 1 7. The method of Claim 1, wherein adjusting comprises for at least
2 one digitized object, aligning that object with and snapping that object to an
3 alignment grid.
- 1 8. The method of Claim 7, wherein aligning comprises identifying an
2 alignment axis of that digitized object and rotating that digitized object so that
3 the alignment axis is generally parallel with an axis of the alignment grid.

1 9. The method of Claim 7, wherein snapping comprises identifying an
2 alignment edge of that digitized object and positioning that digitized object so
3 that the alignment edge is substantially in line with a grid line of the alignment
4 grid.

1 10. The method of Claim 7, wherein snapping comprises identifying a
2 first edge of that digitized object and a second edge of that digitized object, the
3 first edge being substantially perpendicular to the second edge and positioning
4 that digitized object so that the first edge is substantially in line with a first grid
5 line of the alignment grid and the second edge is substantially in line with a
6 second grid line of the alignment grid.

1 11. The method of Claim 7, wherein snapping comprises assigning a
2 snap line to the digitized object and positioning that digitized object so that the
3 snap line is substantially in line with a grid line of the alignment grid.

1 12. The method of Claim 7, wherein:
2 aligning comprises identifying an alignment axis of that digitized object
3 and rotating that digitized object so that the alignment axis is generally parallel
4 with an axis of the alignment grid; and
5 snapping comprises identifying an edge of that digitized object and
6 positioning that digitized object so that the identified edge is substantially in line
7 with a grid line of the alignment grid.

1 13. The method of Claim 1, wherein adjusting comprises adjusting at
2 least one digitized object within the digital image so that the adjusted digitized
3 object at least substantially conforms to a prescribed location, orientation, and
4 size.

1 14. The method of Claim 1, wherein adjusting comprises for each
2 digitized object, aligning the digitized object with and snapping the digitized
3 object to an alignment grid.

1 15. The method of Claim 14, wherein aligning comprises identifying an
2 alignment axis for the digitized object and rotating the digitized object so that
3 the alignment axis is generally parallel with an axis of the alignment grid.

1 16. The method of Claim 14, wherein snapping comprises identifying
2 an alignment edge of the digitized object and positioning the digitized object so
3 that the alignment edge is substantially in line with a grid line of the alignment
4 grid.

1 17. The method of Claim 14, wherein snapping comprises identifying a
2 first edge of the digitized object and a second edge of the digitized object, the
3 first edge being substantially perpendicular to the second edge and positioning
4 the digitized object so that the first edge is substantially in line with a first grid
5 line of the alignment grid and the second edge is substantially in line with a
6 second grid line of the alignment grid.

1 18. The method of Claim 14, wherein the set of digitized objects has a
2 non-uniform object spacing, and wherein snapping comprises repositioning one
3 or more of the digitized objects to establish a substantially uniform object
4 spacing among the set of digitized objects.

1 19. The method of Claim 14, wherein snapping comprises repositioning
2 one or more of the digitized objects to establish, across a dimension of the
3 digital image, a substantially uniform object spacing among the set of digitized
4 objects.

1 20. The method of Claim 19, wherein adjusting also comprises resizing
2 at least one digitized object so that one or more of the digitized objects
3 substantially spans the dimension of the digital image.

1 21. The method of Claim 14, wherein adjusting also comprises, for
2 each digitized object, resizing the digitized object to at least substantially
3 conform to a pre-selected size.

1 22. The method of Claim 14, wherein:
2 aligning comprises identifying an alignment axis of the digitized object and
3 rotating the digitized object so that the alignment axis is generally parallel with
4 an axis of the alignment grid; and
5 snapping comprises identifying an edge of the digitized object and
6 positioning the digitized object so that the identified edge is substantially in line
7 with a grid line of the alignment grid.

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1 23. A method for organizing a digital image, comprising:
2 identifying, within the digital image, a set of digitized objects;
3 providing an alignment grid for the digital image;
4 for each digitized object:
5 rotating that digitized object so that an alignment axis of
6 that digitized object is generally parallel with an axis of the
7 alignment grid; and
8 positioning that digitized object so that an edge of that
9 digitized object is substantially in line with a grid line of the
10 alignment grid; and
11 wherein the steps of identifying, providing, rotating, and positioning are
12 performed automatically upon generation of the digital image.

1 24. A computer readable medium having instructions for: ^b
2 identifying, within a digital image, a set of digitized objects; and
3 adjusting at least one digitized object within the digital image so that the
4 adjusted digitized object at least substantially conforms to a prescribed state.

1 25. The medium of Claim 24, wherein the instructions for adjusting
2 affect one or more of a size, a location, and an orientation of the digitized
3 object.

1 26. The medium of Claim 24, having further instructions for generating
2 the digital image of a set of objects, each of the set of digitized objects being a
3 digital replica of one of the set of objects.

1 27. The medium of Claim 26, wherein the instructions for identifying
2 and adjusting are executed automatically upon generation of the digital image.

1 28. The medium of Claim 24 having further instructions for
2 automatically instructing that the digital image be produced upon execution of
3 the instructions for identifying and adjusting.

1 29. The medium of Claim 24 wherein the instructions for adjusting
2 include instructions for adjusting at least one digitized object within the digital
3 image so that the adjusted digitized object shares a generally uniform state with
4 another digitized object.

1 30. The medium of Claim 24, wherein the instructions for adjusting
2 include, for at least one digitized object, instructions for aligning that object with
3 and snapping that object to an alignment grid.

1 31. The medium of Claim 30, wherein the instructions for aligning
2 include instructions for identifying an alignment axis of that digitized object and
3 rotating that digitized object so that the alignment axis is generally parallel with
4 an axis of the alignment grid.

1 32. The medium of Claim 30, wherein the instructions for snapping
2 include instructions for identifying an alignment edge of that digitized object and
3 positioning that digitized object so that the alignment edge is substantially in line
4 with a grid line of the alignment grid.

1 33. The medium of Claim 30, wherein the instructions for snapping
2 include instructions for identifying a first edge of that digitized object and a
3 second edge of that digitized object, the first edge being substantially
4 perpendicular to the second edge and positioning that digitized object so that the
5 first edge is substantially in line with a first grid line of the alignment grid and
6 the second edge is substantially in line with a second grid line of the alignment
7 grid.

1 34. The method of Claim 30, wherein snapping comprises assigning a
2 snap line to the digitized object and positioning that digitized object so that the
3 snap line is substantially in line with a grid line of the alignment grid.

1 35. The medium of Claim 30, wherein the instructions for:
2 aligning include instructions for identifying an alignment axis of that
3 digitized object and rotating that digitized object so that the alignment axis is
4 generally parallel with an axis of the alignment grid; and
5 snapping include instructions for identifying an edge of that digitized
6 object and positioning that digitized object so that the identified edge is
7 substantially in line with a grid line of the alignment grid.

1 36. The medium of Claim 30, wherein the instructions for adjusting
2 include instructions for adjusting at least one digitized object within the digital
3 image so that the adjusted digitized object at least substantially conforms to a
4 prescribed location, orientation, and size.

1 37. The medium of Claim 24, wherein the instructions for adjusting
2 include, for each digitized object, instructions for aligning the digitized object
3 with and snapping the digitized object to an alignment grid.

1 38. The medium of Claim 37, wherein the instructions for aligning
2 include instructions for identifying an alignment axis for the digitized object and
3 rotating the digitized object so that the alignment axis is generally parallel with
4 an axis of the alignment grid.

1 39. The medium of Claim 37, wherein the instructions for snapping
2 include instructions for identifying an alignment edge of the digitized object and
3 positioning the digitized object so that the alignment edge is substantially in line
4 with a grid line of the alignment grid.

1 40. The medium of Claim 37, wherein the instructions for snapping
2 include instructions for identifying a first edge of the digitized object and a
3 second edge of the digitized object, the first edge being substantially
4 perpendicular to the second edge and positioning the digitized object so that the
5 first edge is substantially in line with a first grid line of the alignment grid and
6 the second edge is substantially in line with a second grid line of the alignment
7 grid.

1 41. The medium of Claim 37, wherein the set of digitized objects has a
2 non-uniform object spacing, and wherein the instructions for snapping include
3 instructions for repositioning one or more of the digitized objects to establish a
4 substantially uniform object spacing among the set of digitized objects.

1 42. The medium of Claim 37, wherein the instructions for snapping
2 include instructions for repositioning one or more of the digitized objects to
3 establish, across a dimension of the digital image, a substantially uniform object
4 spacing among the set of digitized objects.

1 43. The medium of Claim 42, wherein the instructions for adjusting
2 also include instructions for resizing at least one digitized object so that one or
3 more of the digitized objects substantially spans the dimension of the digital
4 image.

1 44. The medium of Claim 37, wherein the instructions for adjusting
2 also include instructions, for each digitized object, resizing the digitized object to
3 at least substantially conform to a pre-selected size.

1 45. The medium of Claim 37, wherein the instructions for:
2 aligning include instructions for identifying an alignment axis of the
3 digitized object and rotating the digitized object so that the alignment axis is
4 generally parallel with an axis of the alignment grid; and
5 snapping include instructions for identifying an edge of the digitized
6 object and positioning the digitized object so that the identified edge is
7 substantially in line with a grid line of the alignment grid.

1 46. A computer readable medium having instructions for:
2 identifying, within a digital image, a set of digitized objects;
3 providing an alignment grid for the digital image; and
4 for each digitized object:
5 rotating that digitized object so that an alignment axis of
6 that digitized object is generally parallel with an axis of the
7 alignment grid; and
8 positioning that digitized object so that an edge of that
9 digitized object is substantially in line with a grid line of the
10 alignment grid.

1 47. A digital image organizing system, comprising:
2 a detection module operable to identify, within the digital image, a set of
3 digitized objects; and
4 an adjustment module operable to adjust at least one digitized object
5 within the digital image so that the adjusted digitized object at least substantially
6 conforms to a prescribed state.

1 48. The system of Claim 47, wherein the adjustment module is
2 operable to adjust at least one digitized object within the digital image so that
3 the adjusted digitized object shares a generally uniform state with another
4 digitized object.

1 49. The system of Claim 47, wherein the adjustment module is
2 operable to:
3 rotate the digitized object so that an alignment axis of the digitized object
4 is generally parallel with an axis of an alignment grid; and
5 position the digitized object so that an edge of that digitized object is
6 substantially in line with a grid line of the alignment grid.

1 50. The system of Claim 47, wherein the adjustment module is
2 operable to adjust at least one digitized object within the digital image so that
3 the adjusted digitized object at least substantially conforms to a prescribed
4 location, orientation, and size.

1 51. The system of Claim 47, wherein the adjustment module is
2 operable to reposition one or more of the digitized objects to establish, across a
3 dimension of the digital image, a substantially uniform object spacing among the
4 set of digitized objects.

1 52. The system of Claim 47, wherein the adjustment module is
2 operable to resize at least one digitized object so that one or more of the
3 digitized objects substantially spans the dimension of the digital image.

1 53. The system of Claim 47, further comprising an interface module
2 operable to direct the detection module and the adjustment module to perform
3 their functions upon generation of the digital image.

1 54. The system of Claim 53, further comprising an interface module
2 operable to send instructions for producing the digital image once the detection
3 module and the adjustment module have performed their functions.

1 55. A multifunction peripheral, comprising:
2 a scan engine operable to generate a digital image containing a set of
3 digitized objects, each of the digitized objects being an electronic replica of a
4 physical object;

1 a detection module operable to identify, within the digital image, a set of
2 digitized objects;
3 an adjustment module operable to adjust at least one digitized object
4 within the digital image so that the adjusted digitized object at least substantially
5 conforms to a prescribed state; and
6 a print engine operable to produce the digital image on a media sheet.

1 56. The multifunction peripheral of Claim 55, further comprising an
2 interface module operable to direct the detection module and the adjustment
3 module to perform their functions upon generation of the digital image by the
4 scan engine and to instruct the print engine to produce the digital image once
5 the detection module and the adjustment module have performed their
6 functions.

1 57. A digital image organizing system, comprising:
2 a means for identifying, within the digital image, a set of digitized objects;
3 and
4 a means for adjusting at least one digitized object within the digital image
5 so that the adjusted digitized object at least substantially conforms to a
6 prescribed state.